UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,443	08/26/2003	Kil-soo Jung	1793.1003	1643

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STEIN, MCEWEN & BUI, LLP
1400 EYE STREET, NW
SUITE 300
WASHINGTON, DC 20005

EXAMINER
CHIO, TAT CHI

ART UNIT	PAPER NUMBER
2621	

MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
	10/647,443	JUNG ET AL.
Office Action Summary	Examiner	Art Unit	
	Tat Chi Chio	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on *amendment filed on 8/20/2007*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1 and 3-10* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1 and 3-10* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Terminal Disclaimer

1.   The terminal disclaimer filed on 8/20/2007 disclaiming the terminal portion of any

patent granted on this application which would extend beyond the expiration date of any

patent granted on Application Number 10/647440 and any patent granted on Application

Number 10/647445 has been reviewed and is accepted. The terminal disclaimer has

been recorded.

Response to Arguments

1.   Applicant's arguments filed 8/20/2007 have been fully considered but they are

not persuasive.

       In response to the Applicant's argument that Lamkin et al. does not disclose the

informing of the ENAV engine of the occurrence of the key input event comprises

creating the key input event using first event information recorded in the markup

document, Lamkin et al. teach that the embedded web browser receives

HTML/JavaScript content from disk which is displayed by presentation engine. The

embedded web browser originates commands (key input event) (as a result of user

interaction which can be via the remote in set-top systems, the keyboard or mouse in

computing systems, the game interface in gaming systems etc.), which are sent to the

command handler by way of the command API. The embedded web browser also

receives commands from the command handler by way of the command API. An

example of such a command is InterActual.FullScreen(w) (first event written in the

markup document). Therefore, Lamkin et al. teach the limitation "the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input event using first event information recorded in the markup document".

Claim Rejections - 35 USC § 102

1.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2.   Claims 1 and 3-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamkin et al. (US 7,178,106 B2).

Consider claim 1, Lamkin et al. teach a method of handling a user input in an interactive mode in which played back AV data is displayed with a markup document, the method comprising: when a key input event corresponding to a user action occurs, informing an ENAV engine, which interprets and executes the markup document, of the occurrence of the key input event (742, 410, 702, 704, 706, 708, 710, 712, 714, and 716 of Fig. 7); and informing, by default, by the ENAV engine, an AV playback engine, which plays back the AV data, of the occurrence of the key input event (422, 426, and 734 of Fig. 7), wherein the informing of the ENAV engine of the occurrence of the key input event comprises creating the key input event using event information recorded in the

markup document (col. 11, lines 56-66), and the informing of the AV playback engine of

the occurrence of the key input event comprises transmitting a playback control

command corresponding to the key input event to the AV playback engine to handle the

key input event (col. 10, lines 4-8).

Consider claim 3, Lamkin et al. teach the method, wherein: the informing of the

ENAV engine of the occurrence of the key input event comprises creating the key input

event using an onclick event that occurs by clicking on a button made in the markup

document, the onclick event being the first event information recorded in the markup

document (col. 11, lines 56-66), and the informing of the AV playback engine of the key

input event comprises transmitting a playback control command corresponding to the

onclick event to the AV playback engine to handle the onclick event (col. 10, lines 4-8).

Consider claim 4, Lamkin et al. teach a method of handling a user input in an

interactive mode in which played back AV data is displayed with a markup document,

the method comprising: informing by default an AV playback engine, which decodes the

AV data, of an occurrence of a key input event corresponding to a user action (422,

426, and 734 of Fig. 7 and col. 19, lines 44-47), using first event information recorded in

the markup document (col. 11, lines 56-66); and prohibiting, when a second event

occurs using second event information recorded in the markup document, the AV

playback engine from being informed of the occurrence of the key input event (col. 19,

lines 51-54).

Consider claim 5, Lamkin et al. teach the method, wherein: the prohibiting comprises creating the second event according to the second event information which is recorded using an Application Program Interface (API) (Table A.1.41).

Consider claim 6, Lamkin et al. teach the method, further comprising: controlling the markup picture in correspondence with a third event which occurs according to a third event information recorded in the markup document (col. 19, lines 58-59).

Consider claim 7, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: determining whether a key input event occurs as a first event according to first event information recorded in a markup document or via a predetermined key of a remote control pressed by a user (col. 19, lines 44-47); informing, if the key input event occurs, an AV playback engine of occurrence of the key input event via an ENAV engine (col. 19, lines 44-47); determining whether a second event occurs (Table A.1.41 and col. 19, lines 51-54); prohibiting, by the ENAV engine, if the second event occurs, the AV playback engine from being directly informed of occurrence of the key input event (Table A.1.41 and col. 19, lines 51-54); and transmitting, by the ENAV engine, if the key input event matches with second event information recorded in the markup document so that the second event occurs, a control command corresponding to the second event to the AV playback engine (Table A.1.41 and col. 19, lines 51-54).

Consider claim 8, Lamkin et al. teach a method of handling a user input in an interactive mode, comprising: determining whether a key input event occurs as a first event according to first event information recorded in a markup document or via a

predetermined key of the remote control pressed by a user (col. 19, lines 44-47);

informing, if the key input event occurs, an AV playback engine of occurrence of the key

input event via an ENAV engine (col. 19, lines 44-47); determining whether user input is

forwarded directly to or prohibited from being forwarded to the AV playback engine,

referred to as a next event (Table A.1.41 and col. 19, lines 51-54); performing, by the

ENAV engine, if the next event occurs, a predetermined operation corresponding to the

next event (Table A.1.41 and col. 19, lines 51-54).

Consider claim 9, Lamkin et al. teach a method of handling a user input in an

interactive mode, comprising: pressing, by a user, a predetermined key of a remote

control to cause a key input event (730 of Fig. 7); and handling, by an interface handler

of an ENAV engine, the key input event by transmitting a playback control command

corresponding to the key input event to an AV playback engine (702 and 704 of Fig. 7)

according to first event information recorded in a markup document (col. 11, lines 56-

66).

Consider claim 10, Lamkin et al. teach a method of handling a user input in an

interactive mode, comprising: pressing, by a user, a predetermined key of a remote

control to cause a key input event (730 of Fig. 7); informing an interface handler of an

ENAV engine of occurrence of the key input event (704 of Fig. 7); informing, by the

interface handler of the ENAV engine, an AV playback engine of occurrence of the key

input event (702 of Fig. 7); and performing, by the AV playback engine, an operation

corresponding to the key input event (col. 11, lines 56-67 and col. 12, lines 1-15).

Conclusion

3.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

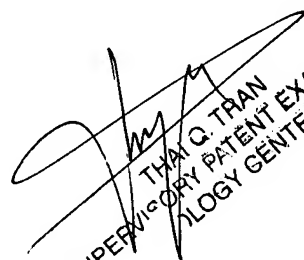than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tat Chi Chio whose telephone number is (571) 272-

9563. The examiner can normally be reached on Monday - Thursday 8:30 AM-6:00 PM

EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thai Tran can be reached on (571)-272-7382. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for ·

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TCC